

- [54] **CONTROL SYSTEM FOR REGULATING A SPRAY GUN PAINT PRESSURE**
- [75] Inventors: **Georg Geier; Manfred Löhne**, both of Hanover, Fed. Rep. of Germany
- [73] Assignee: **WABCO Steuerungstechnik**, Hanover, Fed. Rep. of Germany
- [21] Appl. No.: **155,333**
- [22] Filed: **Jun. 2, 1980**
- [30] **Foreign Application Priority Data**
 Jun. 15, 1979 [DE] Fed. Rep. of Germany 2924264
- [51] Int. Cl.³ **B05B 1/30**
- [52] U.S. Cl. **239/533.1; 239/570; 222/55; 137/487.5**
- [58] **Field of Search** 239/63, 533.1, 569, 239/570, 101, 526, DIG. 14, 67; 222/55; 137/487.5; 118/685

[56] **References Cited**
U.S. PATENT DOCUMENTS

3,605,683	9/1971	Wiggins	118/685
3,726,307	4/1973	Carman et al.	137/487.5
4,084,539	4/1978	Schmidt	118/685

Primary Examiner—Robert B. Reeves
Assistant Examiner—Paul A. Sobel
Attorney, Agent, or Firm—G. J. Falce

[57]

ABSTRACT

A control system for automatically regulating a spray gun paint pressure in which an ideal pressure value is represented by a current flow in a collection line and the real pressure value is represented by a voltage signal that sets a voltage to current transducer via which the collector line current flows. A bypass resistor is connected to the collection line across the inputs of a differential amplifier in a control circuit that controls a supply and exhaust valve for the spray gun paint pressure. As collector line current flows via the voltage to current transducer decreases consistent with the real pressure value being reduced relative to the ideal pressure value, increased current flows via the bypass resistor, thereby increasing the voltage potential across the inputs of the differential amplifier to cause the control circuit to operate the supply valve and accordingly increase the real pressure value to the level of the ideal pressure value.

7 Claims, 1 Drawing Figure

